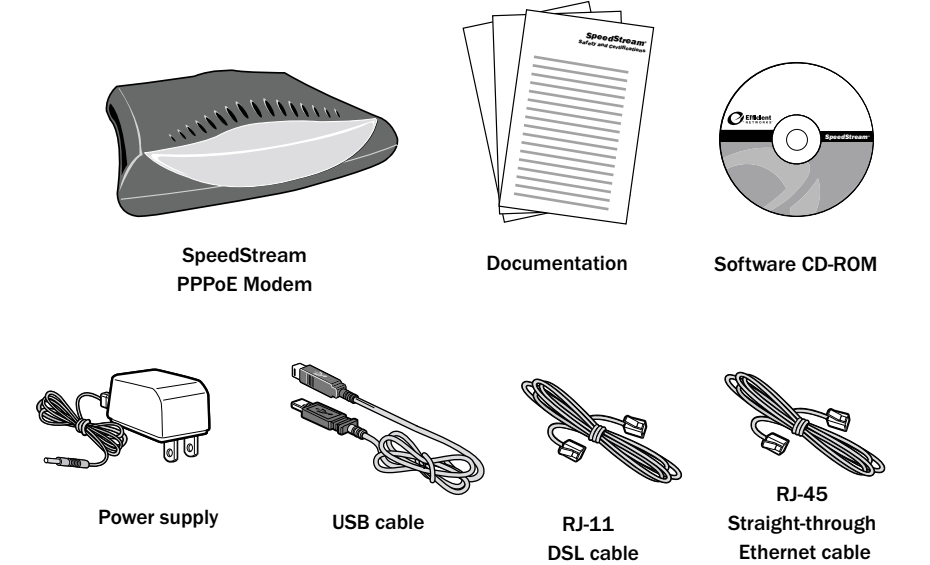


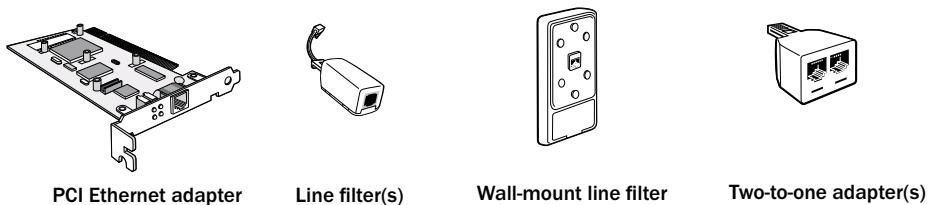
Before you begin:

Verify that the following items came with your DSL kit:



If you are using the USB port to install the modem, you will need to provide your CD-ROM drive letter during software installation. To find the drive letter, double-click the *My Computer* icon on your desktop. Look for the CD icon and note the letter next to it. This letter is your CD-ROM drive letter.

Your service provider may include a wall-mount filter, two-to-one adapter(s), line filter(s), and an Ethernet adapter in your DSL kit. If you received any of these items, follow the instructions provided in this guide for basic installation. If you need further assistance installing these items, please contact your service provider.



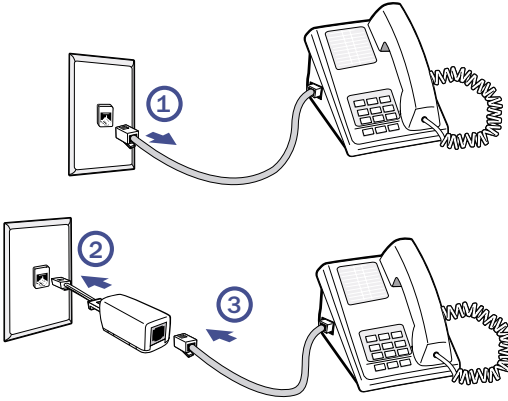
Step 1 Install Line Filters

Devices such as fax machines, caller ID boxes, or phones that share the same phone line as your DSL account require a line filter, which prevents noise from disrupting the DSL signal on the phone line. Filters can be in the form of a stand-alone line filter or a wall mount filter. A filter can also be plugged into a two-to-one adapter if your SpeedStream PPPoE modem will share the same phone jack with another device.

Stand-alone Line Filter

For each device that shares the DSL phone line:

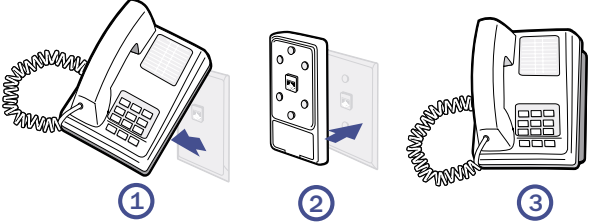
- 1. Unplug the device's cord from the phone jack.
- 2. Plug the filter into the phone jack.
- 3. Plug the phone cord (or other device cord) into the filter.



Wall Mount Filter

For a wall mount phone, install a wall mount filter:

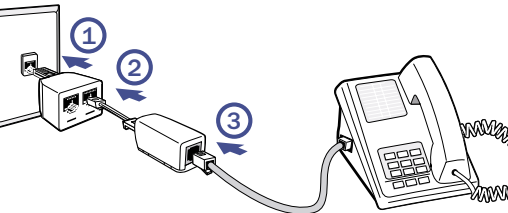
- 1. Remove the phone.
- 2. Connect the wall mount filter to the wall plate.
- 3. Reconnect the phone.



Two-to-One Adapter

If your SpeedStream PPPoE modem and another device will share the same phone jack, install a two-to-one adapter:

- 1. Plug adapter into the phone jack.
- 2. Plug a line filter into one of the sockets of the two-to-one adapter. The other socket will be used to connect the DSL cable.
- 3. Plug the telephone (or other device) cord into the line filter.



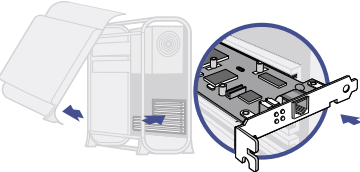
Step 2 Choose an Installation Method

The SpeedStream® PPPoE modem may be connected to either an existing USB port or an Ethernet port. If you choose to attach the SpeedStream® modem via the Ethernet interface, it is only necessary to complete the steps in Option A. Otherwise, proceed directly to Option B for USB installation.

Option A: Ethernet Installation Method

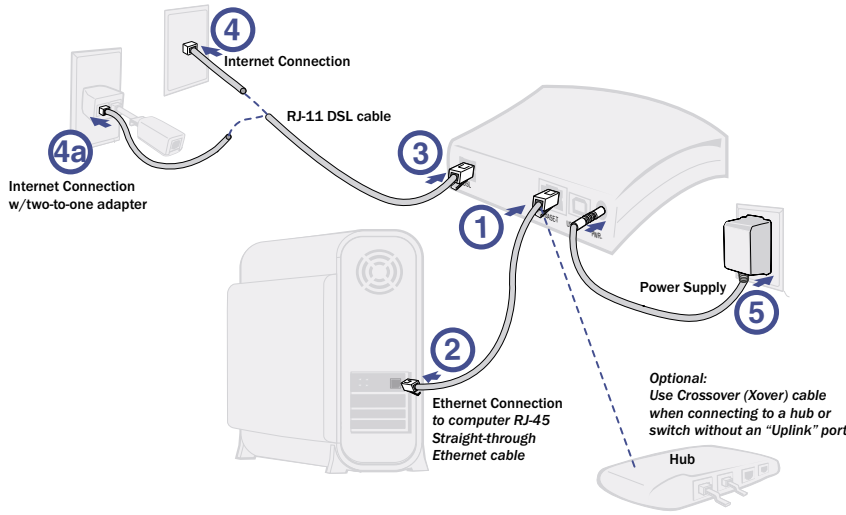
Install Ethernet Adapter

You will need to install an Ethernet adapter if your computer does not already have one installed. Refer to your Ethernet adapter manufacturer's documentation for complete installation instructions.



Connect the SpeedStream PPPoE Modem

- 1. Connect the straight-through Ethernet cable to the Ethernet port on the modem.
- 2. Connect the other end of the straight-through Ethernet cable to the Ethernet port on your computer.
- 3. Plug the DSL cable into the DSL port on the modem.
- 4. Plug the other end of the DSL cable into the phone jack.
- 4a. If using a two-to-one adapter, plug the cable into the open socket of your two-to-one adapter.
- 5. Plug the power adapter into the power outlet and modem.



You have completed the installation of your SpeedStream® hardware; there is no modem software installation required when using the Ethernet connection method. Proceed to Step 3 to configure your modem and connect to the internet.

Option B: USB Installation Method

Software Installation

Before installing the software, make sure your PC is equipped with the following:

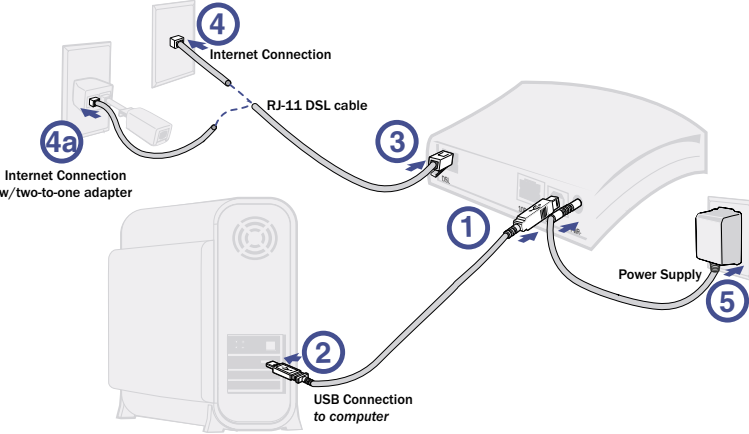
- Windows® 98, Windows® 98 Second Edition (SE), Windows® 2000 Professional, Windows® Millennium Edition (Me), or Windows® XP
- 32 MB RAM
- Pentium-compatible 166 MHz processor or faster processor
- 12 MB available hard disk space

Note: the USB driver software for the PPPoE modem is not installable on Macintosh® computers.

- 1. Insert the SpeedStream® Installation CD into your CD-ROM drive.
- 2. Click the **Start** button on the Windows® taskbar.
- 3. Select **Run** from the **Start** menu.
- 4. Type "e:\setup.exe" where "e" represents your CD-ROM drive. Note: your CD-ROM drive letter may not be "e."
- 5. Click the **OK** button.
- 6. The software installation program will start. Follow the on-screen directions to complete the software installation. When prompted to attach the modem, please refer to the instructions below.

Connect the SpeedStream PPPoE Modem

- 1. Connect the USB Cable to the USB port at the rear of the modem.
- 2. Connect the other end to the USB port on your computer.
- 3. Plug the DSL cable into the DSL port on the modem.
- 4. Plug the other end of the cable into the phone jack.
- 4a. If using a two-to-one adapter, plug the cable into the open socket of your two-to-one adapter.
- 5. Plug the power adapter into the power outlet and modem.
- 6. Power on the computer.



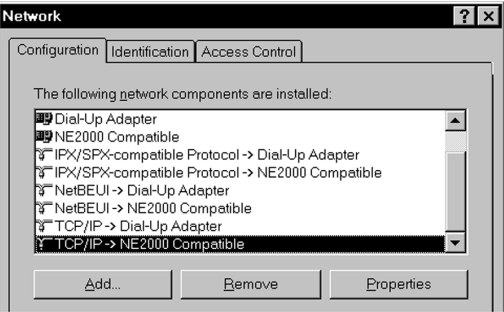
You have completed the installation of your SpeedStream® DSL hardware. Proceed to Step 3 to configure your modem and connect to the internet.

PC Configuration

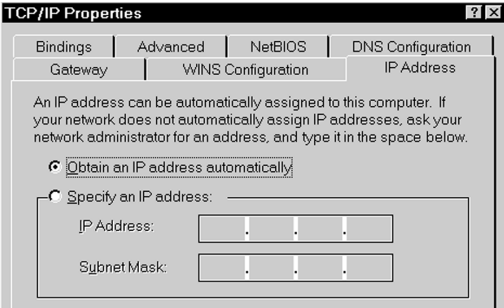
In order to setup the SpeedStream® PPPoE modem your PC must first be configured to obtain an IP address from the modem's built-in DHCP server. Follow the procedure below:

Note: The following procedures cover configuration of a PC running Windows® 95, 98, 98SE or Me®. Please refer to the User Guide on the CD-ROM for help configuring other operating systems.

- Right-click the **Network Neighborhood** icon on the desktop.
- Select **Properties** from the menu.
- Select the **Configuration** tab.



- Identify the TCP/IP -> network card entry. If this entry is not present, ensure both your network adapter and the TCP/IP protocol are installed properly.
- Highlight the **TCP/IP -> network card** entry.
- Click the **Properties** button.



- Ensure that **Obtain an IP address automatically** is selected.
- Select the **DNS Configuration** tab and ensure that **Disable DNS** is selected.
- Click the **OK** button to close the dialog. Then Click the **OK** button again to save changes and exit **Network Properties**.
- Restart your PC, even if no changes were made.
- Proceed to the **Internet Access** section of this guide to complete configuration.

Internet Access

Next, make sure your PC will use the SpeedStream® PPPoE modem (and not Dial-Up Networking) when connecting to the Internet. Follow the below procedure:

- Select **Start -> Settings -> Control Panel** - and double click on the **Internet Options** icon.
- Select the **Connections** tab.
- Select **Setup**.
- Select **"I want to set up my Internet connection manually, or I want to connect through a Local Area Network (LAN)."**
- Click **Next**.
- Select **"I connect through a Local Area Network (LAN)."**
- Click **Next**.
- Ensure that all checkboxes on the **"Local Area Network Internet Configuration"** screen are unchecked.
- Follow the remaining prompts and when complete, click **Finish**.
- If prompted, reboot your PC before continuing to the next section, **Modem Configuration**.

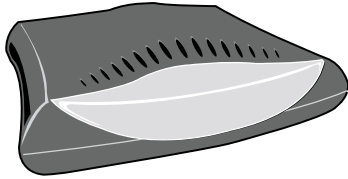
Modem Configuration

Windows Me and XP Users: If you have Universal Plug and Play (UPnP) enabled, Windows may detect the SpeedStream modem upon startup and provide a shortcut to the modem on the desktop or system task tray. The icon will be labeled as "Residential Gateway", double-click the icon and skip to step 3.

- Start your web browser.
- In the Address box, enter the following: **http://192.168.254.254**
- When prompted for a username and password, type **admin** for the password only. (Username is not required.)
- The modem will prompt to change the initial login password. Follow the instructions to change the password. Click **Save**.
- Select **Login** and enter the username and password provided by your service provider.
- Click the **Save** button.
- Visit **http://www.efficient.com** to register your new SpeedStream product.
- If additional configuration is desired, select **Advanced Setup** to configure DHCP, firewall settings, security options and also to view status and statistical information.

Note: If your Service Provider requires you to use separate PPPoE client software, discontinue use of this software. The SpeedStream Dual USB/Ethernet modem will negotiate the PPPoE logon to your service provider's network.

Congratulations! You have completed the installation of your SpeedStream® PPPoE modem.



LED	Off 	Green 	Blinking Green 	Red 
PWR	Power not applied	Normal system operation	N/A	Self test failure if RED longer than 30 seconds
DSL	Power not applied–DSL signal not detected	DSL Line is trained and ready for data traffic	Steady Blinking -DSL is training Blinking - User traffic flowing in either direction	N/A
USB	Power not applied–USB not connected	USB connected	USB user traffic flowing in either direction	N/A
ENET	Power not applied–Ethernet not connected	Ethernet connected	Ethernet user traffic flowing in either direction	N/A



SpeedStream® PPPoE Modem

For more information about Efficient Networks or our products, please visit our website
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